

Vacuum Potting System GLT VPE-770



GLT VPE-770 *Medium Batches Vacuum Potting System*



Vacuum Potting System GLT VPE-770 is available to users as a budget-friendly model for reliable vacuum potting. Unlike the basic VPE-200, VPE-770 is designed with a larger and appropriate working area for small to medium production lines, allowing for precise, bubble-free filling, dabbing, and bead application.

Furthermore, working area of GLT VPE-770 is divided into rows combining with dispensing arm which helps decrease dispensing cycle time so as to increase the production as well as eliminate unnecessary labor costs.

FEATURES

- Strong Versatility with ability to remember 99 pieces programs for variable applications
- > Dispensing in multiple configurations
- > High production capacity
- Higher component reliability and life-span due to improved impregnation
- > Superior product quality for affordable investment

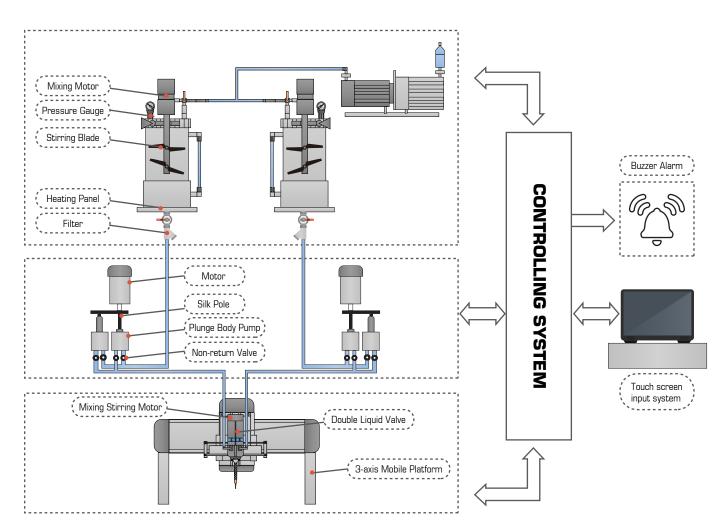
Material Mixing Ratio	100:100 - 100:10 (optional)	
Material Viscosity @25oC	300 cps ~ 50,000 cps	
Mixing Method	Dynamic mixing (including self-cleaning function)	
Precision	± 0.03 mm (repeatability) $\pm 2\%$ (potting) $\pm 2\%$ (mixing)	
Input Pressure	0.5 ~ 0.7 MPa	
Operation Mode	Manual/ Automatic/ Third party single	
Ratio Control	PLC/ Double cylinder plunger pump	
Flow Control	Digital Input	
System Control	Touch Screen/ Hand switch	
Program	Teaching Program	

SPECIFICATION

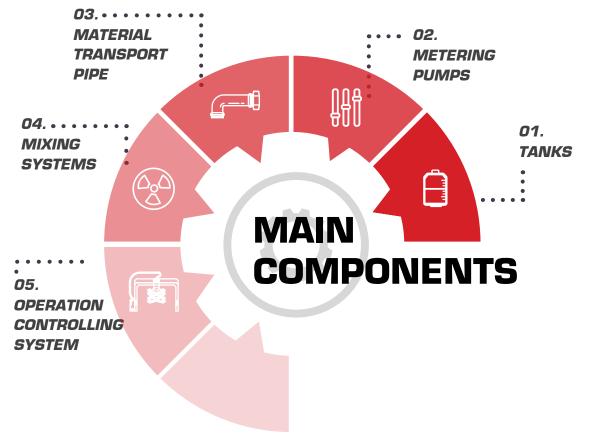
Storage Tank	Stainless tank 40L, 25L, 10L (optional)	
	Liquid level sensor (low liquid level/ high liquid level and limiting liquid level)	
	Tank stirring	
	Constant temperature heating (A tank, A pump and A pipes)	
	Glue filter	
Power Supply	220V/ 50Hz/ 3500W	
Appearance material	Cold-roll steel plate/ Industrial aluminium/ stainless/ metal plate	
Working area	700 x 700 x 100 mm	
Dimension	1200 x 1000 x 1500 mm	



Controlling system control machine working path and mixing time, mix ratio and gluing amount. Mixing system mix glue and convey glue to dispensing head according to the instructions of machine controlling system. Three axis platform the working path base on instruction of machine controlling system.



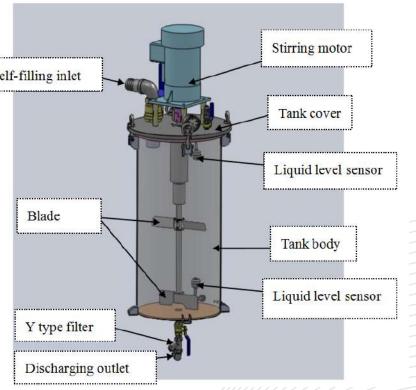




1. TANKS

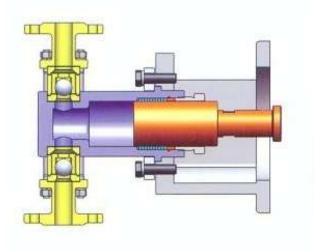
As per customer's glue feature and product process to select corresponding functions. Such as stirring function ,vacuum defomation; self-refilling function ; And you can add the high/low liquid level sensor and bottom ball valve of tank .

- We adoptive stainless panel vacuum pressure tank which can bear negative pressure of inner glue tank.
- Tank with motor stirrer that prevent the glue Self-filling inlet from sediment and keep the glue in constant temperature.
- Tank with high /low liquid sensor that ensure alarm warning when liquid higher or lower the setting level.
- Tank with vacuum defoamation (defoamation time can be set through touch screen), so the material can be re-filled through vacuum negative pressure.
- Tank with pressure releasing ball valve ; the bottom of tank reserved back flow connector and river closure ball valve.
- Tank with artificial feeding mouth that can be added glue appropriately.
- Tank with dry-filter can prevent glue from crystallization.

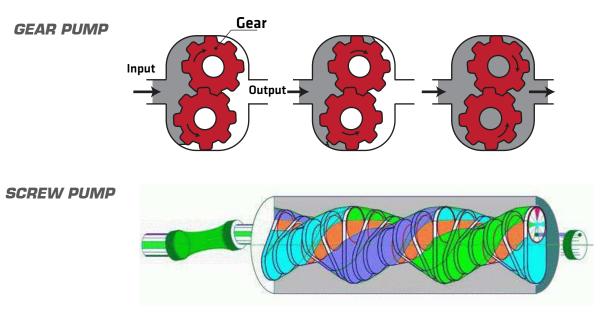


2. METERING PUMPS

- Quantify metering system with high precision (±2%), suitable for middle to low viscosity two component material ratio.
- Adaptive foreign technology that further improved sealing position and glue supply accuracy.
- Graphite sealing components; stainless pump; stainless connector ensure the pump with long lifespan and anti corruption.
- Metering pump have Daheng high pressure and high precision double liquid valve, with vary sealing methods and adjustable retract function, that is convenient for glue valve cleaning and precision glue dispensing.



- Glue controlling system can program glue dispensing in high precision and reserved many glue dispensing programs.
- > Inset self-check controlling system module makes fault detection rapidly.
- > Through different collections of metering pumps realize the changeable ratio from 1:1 to 10:1.
- > Keep steady gluing , the glue amount can be adjusted from 1g/s~15g/s.



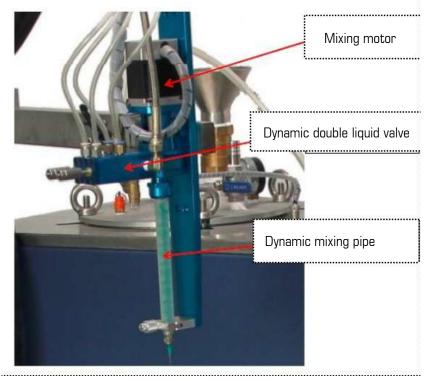
3. MATERIAL TRANSPORT PIPE

- Strong toughness, not easy breakage,anti aging maturing, no abrasion and no color changed.
- Teflon with stable chemical performance and anti corruption, temperature range can be -200~+260°, High insulativity and good fire resistance.
- No adhesion and easy clean; good separating effect and wear-resisting coefficient as low as 0.05.
- Glue pipe with heating tape ensure constantly temperature.
- Glue pipe pressure sensor.
- The length can be customized base on requirement.

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4. MATERIAL AUTOMATIC MIXING SYSTEM (DYNAMIC MIXING)

The three-coordinate linear mechanical arm is driven by servo motor, which can realize the precise position control of rubber head. Because of the teaching and programming method, the movement track of rubber head can be easily adjusted.



- > Dynamic mixing with stirring detecting function that ensure glue mixing evenly.
- Stainless design of the glue touch surface to capture more higher material compatibility.
- Glue valve with flow-back prevent function that can prevent glue from dropping when stop gluing.
- > Sealing parts of rod shaft adopt imported parts to keep more higher durability.
- The self-cleaning function make machine cleaning more easier that you needn't dis-assembly the parts to wash. Cleaning time and cleaning times could be set in the touch screen.

5. OPERATION CONTROLLING SYSTEM

- > Gluing amount is controlled by the speed of servo motor; glue speed adjustable within the speed range.
- Machine with detecting function that detect the speed and running time of pumps to ensure the ratio reliability.
- Gluing-out could be adjusted that make sure glue A/B dispense out at the same time from glue valve to get better glue mixing effect.
- > Machine with gel resistance calculator , which prevent the mixture curing inside.
- > You can set single gluing-out and steady gluing-out function to meet up with your different process requirement.
- > Whole machine system and function is controlled by Panasonic PLC and PROFACE touch screen.
- > Reserved PLC communication interface, which easy connecting with outside device.
- > Equipped with a safety lock to prevent staff from wrong operation.



Category	Fully Automatic Potting System			
Category	Configuration	Quality	Unit	
Main Frame	Foundation frame - Steel welded structure	01	set	
	Metal plate	01	set	
	Castor	04	set	
	PLC	01	set	
	Software system	01	set	
	Industrial human-computer interface touch screen	01	pcs	
	Metering pump motor/ Driver	02	set	
Controlling system	Photoelectric proximity switch	08	set	
	Metering pump bearing	01	set	
	Motion control card	01	set	
	Pneumatic component (solenoid/pressure regulating valve/Pneumatic duplex)	01	pcs	
	Electronic component (relay/ cocontactor/ power supply/ leakage switch)	01	pcs	
	Synchronous belt	02	set	
Three axis	Motor/driver	02	set	
system	Z axis	01	set	
	Stainless tank A	03	set	
Glue supplying	Stainless tank B	03	set	
system	Pipe and tank heater (adjustable temperature)	02	set	
	Temperature control instrument	02	set	
	AB tank stirring motor	02	pcs	
	Double cylinder plunger pump A (200ml)	01	set	
	Double cylinder plunger pump B (200ml)	01	set	
	Dynamic double liquid valve	01	set	
	High quality teflon tube	02	pcs	
	Self-cleaning	01	set	



ltem	Accessories name and model number	Quantity	Remark
1	Double liquid valve sealing components	4 sets	Double liquid valve wearing parts with NRB/Four fluorine graphite material that is anti-corrosion and wear resistance ;which normally replaced as per glue feature.
2	Dynamic mixer pipe MR13-12	10 pcs	Consumable
3	Tool	1 set	Standard
4	User manual	1 pcs	Standard



- 1. Seller provide one year warranty period and support free maintenance service during warranty. Software upgrade service is provided for a long life time.
- 2. In case parts of the machine become broken within the warranty because of non-artificial factors, we send you part replacement free, buyer pay for the shipment. Double-liquid valve should be bought at its cost price.
- 3. If the parts of the machine become broken past warranty , the parts replacement should be shouldered by buyer.